10/034,477

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20030126117").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/12/08 09:43
L2	24882	(707/2-6,10,101,102,104.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/12/08 09:43
L3	98346	(token$1 or keyword$1 or "lexical pattern" or "key phrase" or "identified keyword" or "identified key phrase")	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:56
L4	6847	3 and 2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:45
L5	63	4 and (predetermined near characters)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:46
L6	21	5 and (search near engine)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:46
L7	17	6 and index$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:48
L8	7	7 and @ad<"20011228"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:50

EAST Search History

L9	3724	4 and @ad<"20011228"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:54
L10	2267	9 and index$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:50
L11	27	10 and token near index$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:52
L12	18	(token$1 or keyword$1 or "lexical pattern" or "key phrase" or "identified keyword" or "identified key phrase")same (related near expression$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:53
L13	8	12 and @ad<"20011228"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:56
L14	1790135	index$3 and @ad<"20011228"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:55
L15	4029	14 and (search near engine)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:55
L16	4029	15 and @ad<"20011228"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:56

EAST Search History

L17	2044	3 and 16	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:56
L18	666	17 and expression$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:57
L19	369	18 and 2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:57
L20	10	19 and (predetermined near format)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/12/08 09:57

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Results 1 - 11 of 11

Relevance scale

1 Frame memory: a storage architecture to support rapid design and implementation of efficient databases

Salvatore T. March, Dennis G. Severance, Michael Wilens

September 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

Frame memory is a virtual view of secondary storage that can be implemented with reasonable overhead to support database record storage and accessing requirements. Frame memory is designed so that its operating characteristics can be easily manipulated by either designers or design algorithms, while performance effects of such changes can be accurately predicted. Automated design procedures exist to generate and evaluate alternative database designs built upon frame memory, and the existenc ...

Keywords: analytic modeling, database design system, virtual secondary storge

2 Scalable statistical bug isolation

Ben Liblit, Mayur Naik, Alice X. Zheng, Alex Aiken, Michael I. Jordan

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6

Publisher: ACM Press

Full text available: pdf(180.44 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a statistical debugging algorithm that isolates bugs in programs containing multiple undiagnosed bugs. Earlier statistical algorithms that focus solely on identifying predictors that correlate with program failure perform poorly when there are multiple bugs. Our new technique separates the effects of different bugs and identifies predictors that are associated with individual bugs. These predictors reveal both the circumstances under which bugs occur as well as the frequencies of fail ...

Keywords: bug isolation, feature selection, invariants, random sampling, statistical debugging

3 A two-view approach to constructing user interfaces

Gideon Avrahami, Kenneth P. Brooks, Marc H. Brown
July 1989 **ACM SIGGRAPH Computer Graphics., Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH '89**, Volume 23 Issue 3
Publisher: ACM Press

Full text available: pdf(4.40 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a system for constructing graphical user interfaces following a two-view paradigm: one view contains a textual representation of the interface in a special-purpose, "little" language, and the other view contains a direct manipulation, interactive editor for the user interface. The user interface can be edited in either view, and the changes are reflected in the other view. The language allows dialog boxes to be expressed in a simple and natural way, and has a well-defined ma ...

4 Large-scale resources: The automatic creation of lexical entries for a multilingual MT system
David Farwell, Louise Guthrie, Yorick Wilks
August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(436.57 KB) Additional Information: full citation, abstract, references, citings

In this paper, we describe a method of extracting information from an on-line resource for the construction of lexical entries for a multi-lingual, interlingual MT system (ULTRA). We have been able to automatically generate lexical entries for interlingual concepts corresponding to nouns, verbs, adjectives and adverbs. Although several features of these entries continue to be supplied manually we have greatly decreased the time required to generate each entry and see this as a promising method f ...

5 WHAT: an XSLT-based infrastructure for the integration of natural language processing components
Ulrich Schäfer
May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03**
Publisher: Association for Computational Linguistics
Full text available: pdf(158.89 KB) Additional Information: full citation, abstract, references

The idea of the Whiteboard project is to integrate deep and shallow natural language processing components in order to benefit from their synergy. The project came up with the first fully integrated hybrid system consisting of a fast HPSG parser that utilizes tokenization, PoS, morphology, lexical, named entity, phrase chunk and (for German) topological sentence field analyses from shallow components. This integration increases robustness, directs the search space and hence reduces processing ti ...

6 Design of an interpretive environment for Turing
James R. Cordy, T. C. N. Graham
July 1987 **ACM SIGPLAN Notices , Papers of the Symposium on Interpreters and interpretive techniques SIGPLAN '87**, Volume 22 Issue 7
Publisher: ACM Press
Full text available: pdf(514.77 KB) Additional Information: full citation, abstract, citings, index terms

This paper presents the design of an interpreter structure for modern programming languages such as Turing and Modula II that is modular and highly orthogonal while providing maximal flexibility and efficiency in implementation. At the outermost level, the structure consists of a front end, responsible for interaction with the user, and a back end, responsible for execution. The two are linked by a single database consisting of the tokenized statements of the user program. Interfaces between the ...

7 A formal protection model of security in centralized, parallel, and distributed systems
Glenn S. Benson, Ian F. Akyildiz, William F. Appelbe
August 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 3
Publisher: ACM Press
Full text available: pdf(2.17 MB) Additional Information: full citation, abstract, references, citings, index terms, review

One way to show that a system is not secure is to demonstrate that a malicious or mistake-prone user or program can break security by causing the system to reach a nonsecure state. A fundamental aspect of a security model is a proof that validates that every state reachable from a secure initial state is secure. A sequential security model assumes that every command that acts as a state transition executes sequentially, while a concurrent security model assumes that multiple commands execut ...

Keywords: access control, concurrency control, distributed system security, operating system security, protection model

8 Aspen language specifications
Thomas R. Wilcox
November 1977 **ACM SIGPLAN Notices**, Volume 12 Issue 11
Publisher: ACM Press
Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, citings

ASPEN is a "toy" language that has been designed for use in the teaching of compiler construction and is therefore a curious amalgam of highly refined language features that manage to barely cover the full spectrum of algorithmic languages. One selection statement is made to do the work of IF-THEN-ELSE and CASE, but with certain severe restrictions on the conditions that may be written. on the other hand, iterations must be written as a primitive infinite loop with explicit conditional exits.Onl ...

9 Optimized System Synthesis of Complex RT Level Building Blocks from Multirate Dataflow Graphs
Jens Horstmannshoff, Heinrich Meyr
November 1999 **Proceedings of the 12th international symposium on System synthesis**
Publisher: IEEE Computer Society
Full text available: pdf(160.15 KB) Publisher Site Additional Information: full citation, abstract, citings

In order to cope with the ever increasing complexity of todays application specific integrated circuits, a building block based design methodology is established. The system is composed of high level building blocks of which some are reused from previous designs while others might have been created by behavioral synthesis. In data flow oriented designs, these blocks usually have complex non-matching interface properties, making it necessary to generate additional interfacing and controlling hard ...

10 Musical information retrieval using melodic surface
Massimo Melucci, Nicola Orio
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(674.04 KB) Additional Information: full citation, references, citings, index terms

Keywords: automatic indexing, automatic melodic segmentation, computer music, information retrieval, musical digital libraries

11 A storage and access manager for ill-structured data

Jeffrey Kottemann, Michael Gordon, Jack Stott

August 1991 **Communications of the ACM**, Volume 34 Issue 8

Publisher: ACM Press

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by c ...

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Best 200 shown Relevance scale

1 Improved search ranking: Optimizing scoring functions and indexes for proximity search in type-annotated corpora

Soumen Chakrabarti, Kriti Puniyani, Sujatha Das

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(336.62 KB) Additional Information: full citation, abstract, references, index terms

We introduce a new, powerful class of text proximity queries: find an instance of a given "answer type" (person, place, distance) near "selector" tokens matching given literals or satisfying given ground predicates. An example query is type=distance NEAR Hamburg Munich. Nearness is defined as a flexible, trainable parameterized aggregation function of the selectors, their frequency in the corpus, and their distance from the candidate answer. Such queries provide a key data reduction step for inf ...

Keywords: indexing annotated text

2 Industrial and practical experience track paper session 2: The infocious web search engine: improving web searching through linguistic analysis

Alexandros Ntoulas, Gerald Chao, Junghoo Cho

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(227.88 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present the Infocious Web search engine [23]. Our goal in creating Infocious is to improve the way people find information on the Web by resolving ambiguities present in natural language text. This is achieved by performing linguistic analysis on the content of the Web pages we index, which is a departure from existing Web search engines that return results mainly based on keyword matching. This additional step of linguistic processing gives Infocious two main advantages. First, ...

Keywords: concept extraction, crawling, indexing, information retrieval, language analysis, linguistic analysis of web text, natural language processing, part-of-speech tagging, phrase identification, web search engine, web searching, word sense disambiguation

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1 Industrial and practical experience track paper session 2: The infocious web search engine: improving web searching through linguistic analysis

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Keywords: concept extraction, crawling, indexing, information retrieval, language analysis, linguistic analysis of web text, natural language processing, part-of-speech tagging, phrase identification, web search engine, web searching, word sense disambiguation

2 Plagiarism detection across programming languages

Christian Arwin, S. M. M. Tahaghoghi

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(193.09 KB) Additional Information: full citation, abstract, references, index terms

Plagiarism is a widespread problem in assessment tasks; in computing courses, students often plagiarise source code. For all but the smallest classes, manual detection of such plagiarism is impractical, and, while automated tools are available, none has been applied to detect inter-lingual plagiarism, where source code is copied from one language to another. In this work, we propose a novel approach, XPlag, to detect plagiarism involving multiple languages using intermediate program code produce ...

Keywords: plagiarism detection, program source code similarity

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1 Emerging threats: Search worms

Niels Provos, Joe McClain, Ke Wang

November 2006 **Proceedings of the 4th ACM workshop on Recurring malcode WORM '06**

Publisher: ACM Press

Full text available: pdf(537.46 KB) Additional Information: full citation, abstract, references, index terms

Worms are becoming more virulent at the same time as operating system improvements try to contain them.Recent research demonstrates several effective methods to detect and prevent randomly scanning worms from spreading [2, 13]. As a result, worm authors are looking for new ways to acquire vulnerable targets without relying on randomly scanning for them. It is often possible to find vulnerable web servers by sending carefully crafted queries to search engines. Search worms1 automate this approach ...

Keywords: index filtering, internet worms, search, security, signature

2 Building searchable collections of enterprise speech data

James W. Cooper, Mahesh Viswanathan, Donna Byron, Margaret Chan

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(356.53 KB) Additional Information: full citation, abstract, references, index terms

We have applied speech recognition and text-mining technologies to a set of recorded outbound marketing calls and analyzed the results. Since speaker-independent speech recognition technology results in a significantly lower recognition rate than that found when the recognizer is trained for a particular speaker, we applied a number of post-processing algorithms to the output of the recognizer to render it suitable for the Textract text mining system. We indexed the call transcri ...

Keywords: document display, search, speech analysis, speech retrieval, text mining

3 DEADLINER: building a new niche search engine

A. Kruger, C. L. Giles, F. M. Coetzee, E. Glover, G. W. Flake, S. Lawrence, C. Omlin

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Relevance scale

1 Link-based ranking 2: Searching the workplace web

Ronald Fagin, Ravi Kumar, Kevin S. McCurley, Jasmine Novak, D. Sivakumar, John A. Tomlin, David P. Williamson

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(231.55 KB) Additional Information: full citation, abstract, references, citings, index terms

The social impact from the World Wide Web cannot be underestimated, but technologies used to build the Web are also revolutionizing the sharing of business and government information within intranets. In many ways the lessons learned from the Internet carry over directly to intranets, but others do not apply. In particular, the social forces that guide the development of intranets are quite different, and the determination of a "good answer" for intranet search is quite different than on the Int ...

2 Lexical navigation: visually prompted query expansion and refinement

James W. Cooper, Roy J. Byrd

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(1.27 MB) Additional Information: full citation, references, citings, index terms

3 Industry/government track paper: Deriving marketing intelligence from online discussion

Natalie Glance, Matthew Hurst, Kamal Nigam, Matthew Siegler, Robert Stockton, Takashi Tomokiyo

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(629.35 KB) Additional Information: full citation, abstract, references, index terms

Weblogs and message boards provide online forums for discussion that record the voice of the public. Woven into this mass of discussion is a wide range of opinion and commentary about consumer products. This presents an opportunity for companies to understand and

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1 Link-based ranking 2: Searching the workplace web

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Publisher: ACM Press

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2 Building a distributed full-text index for the web

Sergey Melink, Sriram Raghavan, Beverly Yang, Hector Garcia-Molina

July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(651.72 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction time. We also propose a storage scheme for creating and managing inverted files using an embedded database system. We suggest and compare different strategies for collecting global statistics from distributed inverted indexes. Finally, we present pe ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

3 Lexical navigation: visually prompted query expansion and refinement

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Relevance scale

1 Plagiarism detection across programming languages

Christian Arwin, S. M. M. Tahaghoghi

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(193.09 KB) Additional Information: full citation, abstract, references, index terms

Plagiarism is a widespread problem in assessment tasks; in computing courses, students often plagiarise source code. For all but the smallest classes, manual detection of such plagiarism is impractical, and, while automated tools are available, none has been applied to detect inter-lingual plagiarism, where source code is copied from one language to another. In this work, we propose a novel approach, XPlag, to detect plagiarism involving multiple languages using intermediate program code produce ...

Keywords: plagiarism detection, program source code similarity

2 Summary in context: Searching versus browsing

Daniel M. McDonald, Hsinchun Chen

January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(530.99 KB) Additional Information: full citation, abstract, references, index terms

The use of text summaries in information-seeking research has focused on query-based summaries. Extracting content that resembles the query alone, however, ignores the greater context of the document. Such context may be central to the purpose and meaning of the document. We developed a generic, a query-based, and a hybrid summarizer, each with differing amounts of document context. The generic summarizer used a blend of discourse information and information obtained through traditional surface- ...

Keywords: Summarization, browse, generic summaries, indicative summaries, information seeking, natural language processing, search, text processing

3

Fri, 8 Dec 2006, 10:19:54 AM EST

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Search Query Display

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#2 ((token)<in>metadata) and indexing

#3 ((token)<in>metadata) and indexing and (~~tokenindex~~)

#4 (~~token index~~<IN>metadata)

#5 (token and index and format<IN>metadata)

#6 (token or keyword and index<IN>metadata)

#7 (((token or keyword and index<in>metadata))<AND> (fprmat<in>metadata))

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